SpotBot™ Series 1200, 7887 Service Center Guide

Revolutionary spot cleaner gives you the freedom to *WalkAway* while it does the work for you.

Handsfree Cleaning

Set SpotBot™ on the spot or stain, hit start and WalkAway–SpotBot does the work for you.

Manual Cleaning

Convenient hose and tools are stored on board for versatile cleaning of stairs, auto, and upholstery.

Unique Spiral Brushing™

Safely and effectively brushes, sprays and permanently removes stains such as red wine, cola, fruit juice and coffee*.

Automatic Smart System

Pre-programmed cycles for surface or set-in stains.

Issued: August, 2005

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Quick reference troubleshooting chart

Problem	*Possible cause / Check for…*
• No spray (both hose and floor)	• make sure solution tank is filled • solution tank valve works properly • clogged receiver • kinked or misrouted solution tube • faulty pump or loose connections to pump
• Unit will only spray out of the hose (no spray at floor in automatic)	• kinked or misrouted solution tube • clogged spray tip • trigger valve malfunction
• No/Low Suction	• make sure the gasket is on the recovery tank • stuck float in recovery tank • clog in air path, hose or duct • faulty vacuum motor or loose connections to motor
• Brushes do not spin	• faulty brush motor or loose connections to motor
• Unit will only run in manual mode	• wand is not completely inserted into the trigger valve • trigger valve malfunction / faulty trigger valve
• Unit will not run in manual mode	• wand is not removed from the trigger valve. • faulty trigger valve
• Unit only runs in automatic mode o Power indicator light comes on o Continues to run in automatic even with hose removed from trigger valve.	• wire harness (red & yellow 22awg wires) disconnected from circuit board or trigger valve

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TAKING THE UNIT APART

WARNING: To reduce the risk of electrical shock, unplug before servicing.

- Remove the solution and recovery tanks.
- In order to gain access to the motor compartment you will only need to remove five screws.
- Remove the 1/2" long screw from the receiver plate underneath the solution tank and the two 3/4" long screws from below the recovery tank as shown.

- The Receiver plate is also held in place by two tabs. Tilt the plate up; then pull it sideways, away from the unit, and up in order to get the tabs to disengage.

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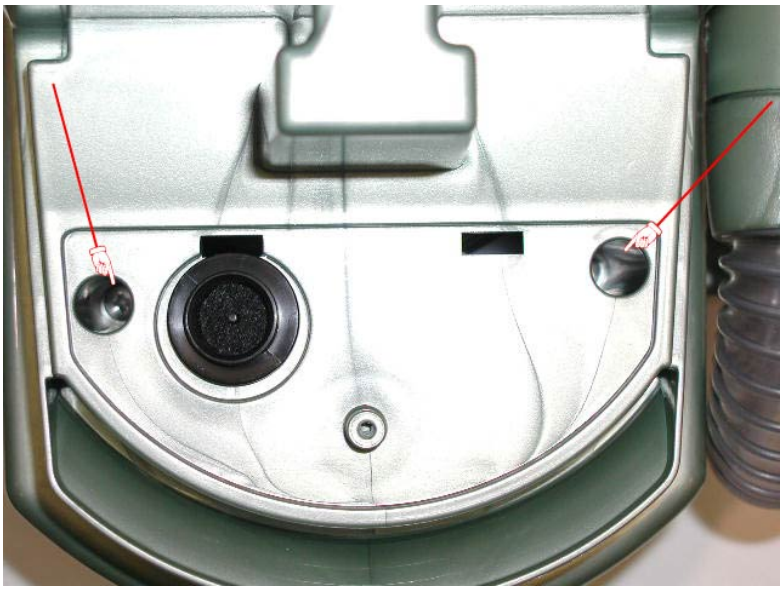
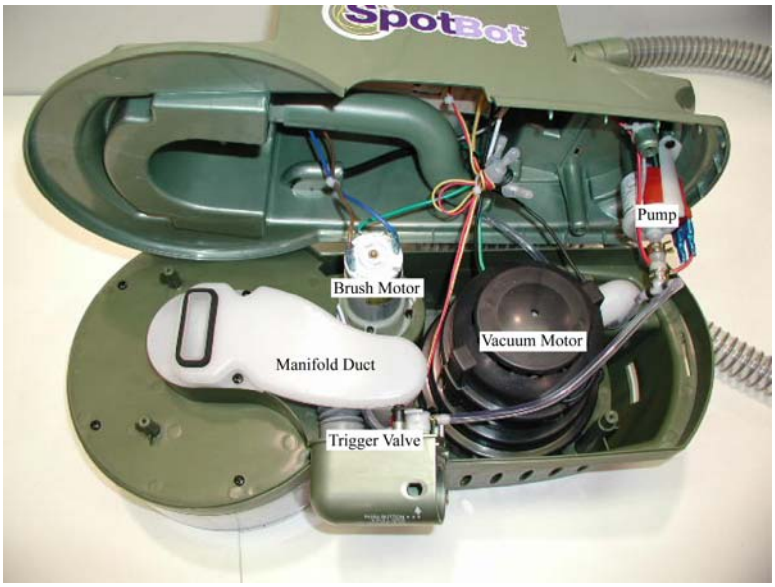
- Screws four and five (also 3/4" long) are located below the receiver plate.



- The upper housing can be removed once you have removed all five screws.



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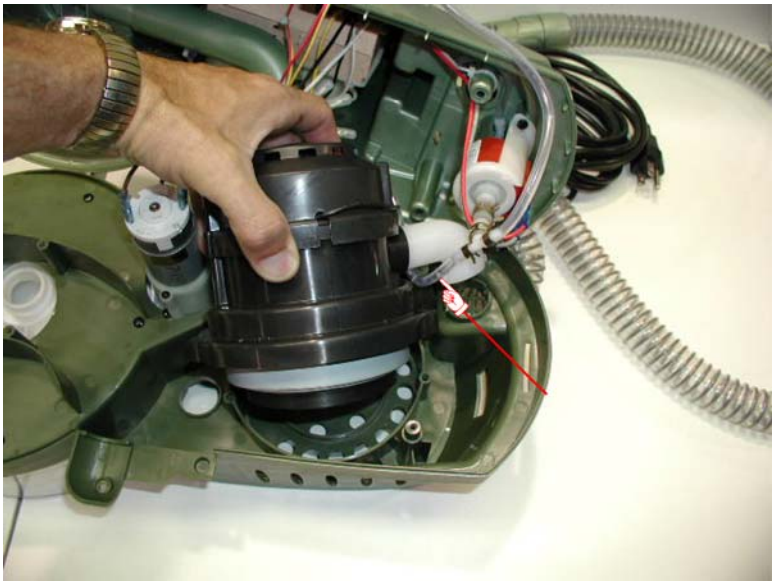
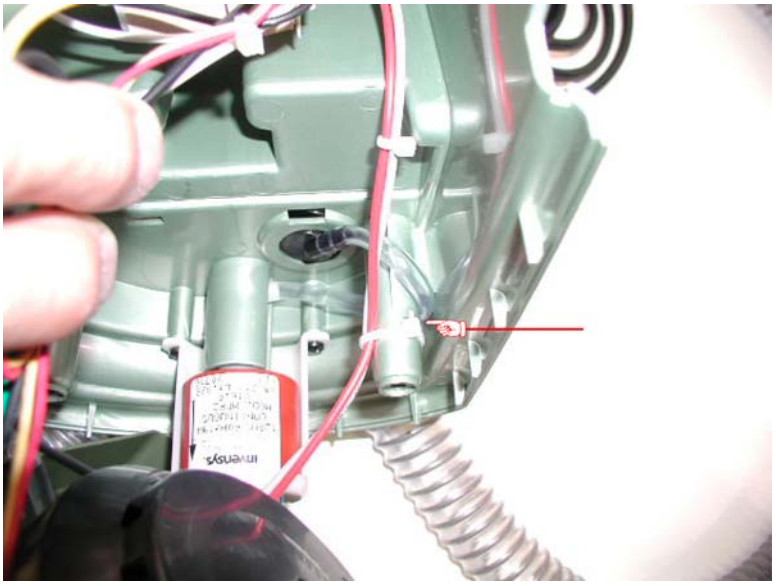
VACUUM MOTOR REPLACEMENT

- The vacuum motor can be replaced by removing three mounting screws. Note how the solution tube is routed underneath the motor duct after coming off the "T" connector.



- Also note how the solution tube from the receiver is routed around the screw boss before connecting to the pump.



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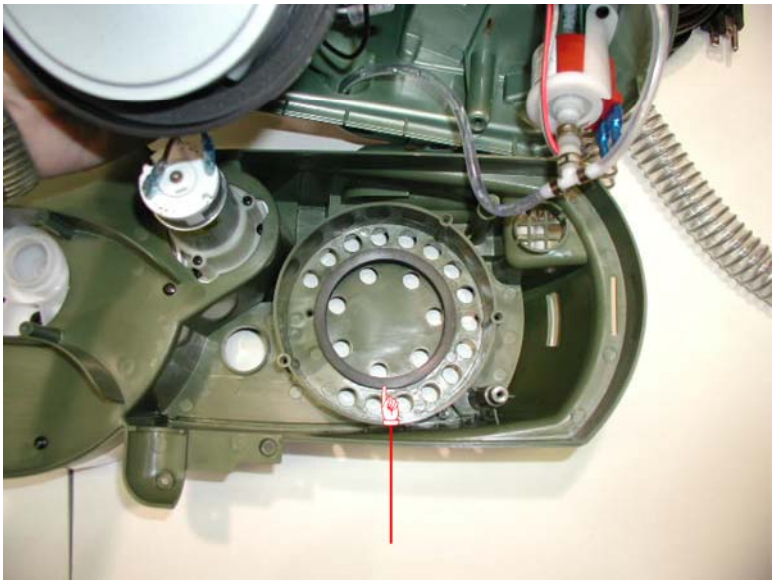
- The small motor gasket may stick to the vacuum motor when you disassemble it.

- Assure the small motor gasket is attached to the base of the unit as shown.



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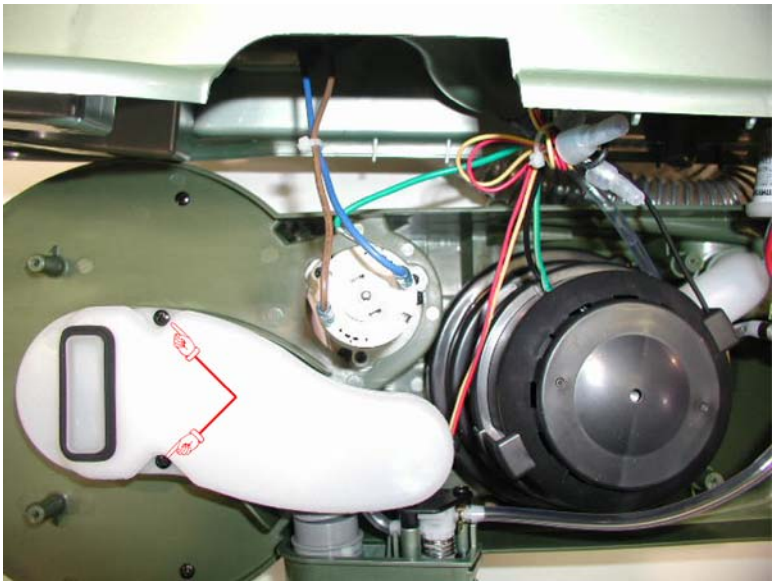
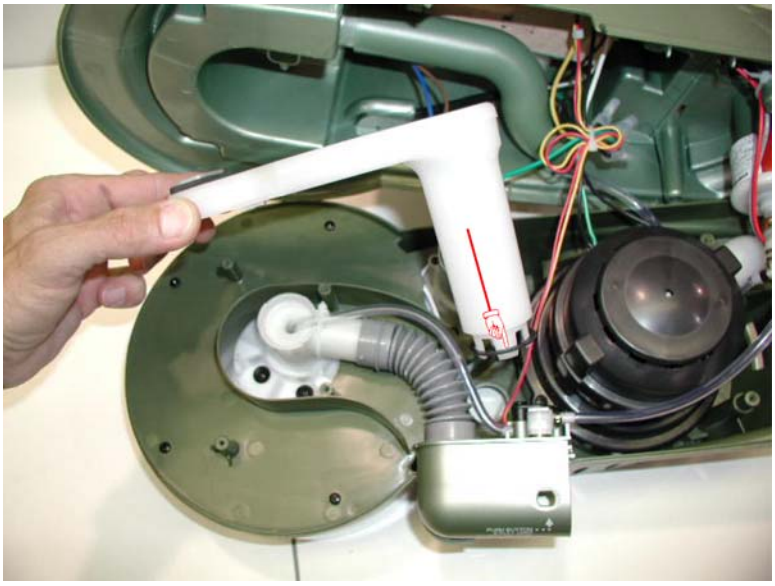
REPLACING THE MANIFOLD DUCT

- The Manifold Duct is secured with two screws. Remove the two screws then pull up while wiggling the duct in order to release the snaps on the bottom.



- The gasket should be attached as shown.



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TROUBLESHOOTING THE TRIGGER VALVE

The trigger valve allows the unit to operate in either automatic or manual mode depending on whether the wand is inserted or not. With the wand fully inserted into the trigger valve the unit should run and spray only in the automatic mode. The unit should only run in the manual mode with the wand removed from the trigger valve. The trigger valve can be removed by unscrewing the two 5/8" long screws from its underside. After removing the screws, pull the white spray tip end straight up to remove it.

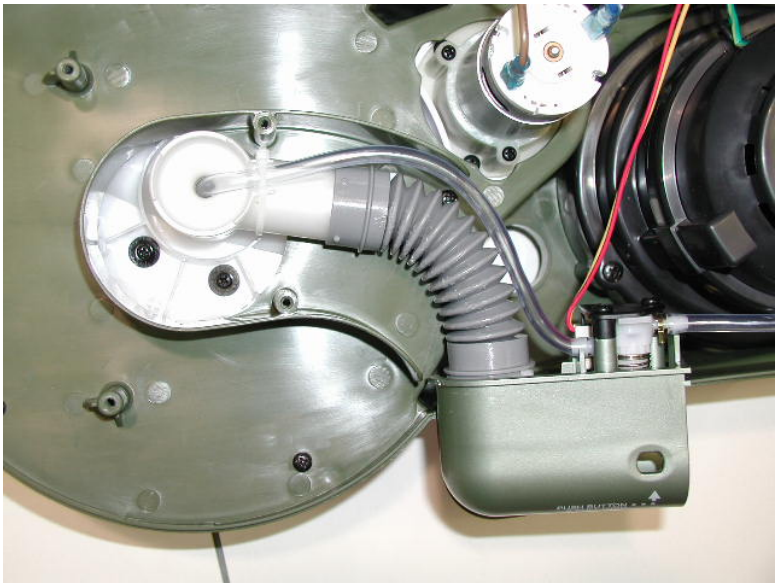
The trigger valve has two major components a valve that allows solution to be sprayed onto the floor through the spray nozzle in the center of the rotating brushes and a micro switch that determines whether the unit will run in automatic or manual mode. Both of these functions are activated by the wand being in place.

Automatic Mode

If the wand is not inserted into the trigger valve the unit will not run in the automatic mode. If the wand is removed from the trigger valve while the unit is running in automatic mode the unit should shut off.

Manual Mode

The unit should not turn on until the wand is removed from the trigger valve assembly. If it is not removed within 30 seconds of pushing the manual/hose start button, the vacuum motor will not start.



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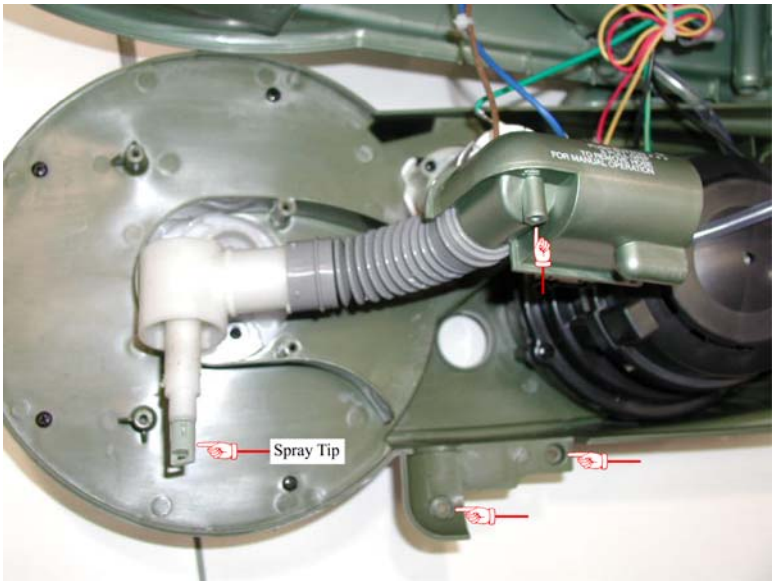
- The screw locations for the trigger valve are pictured below.



BOTTOM PLATE

- The bottom plate is held on by five 5/8" long screws.

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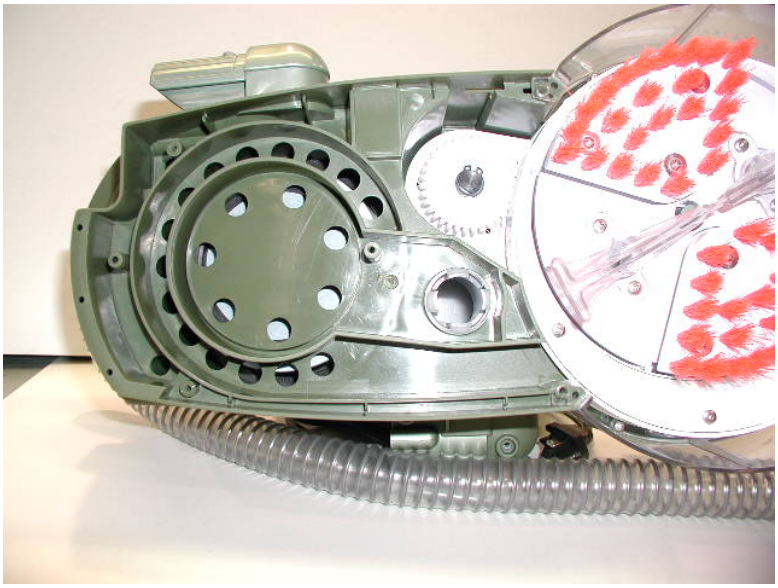
- Check the air path for debris in cases of low suction.



- There should be a gasket routed in the channel of the bottom plate.

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Wiring Information

- Green from the power cord, solid green 20awg to brush motor, green w/ yellow stripe 20awg to vacuum motor, and yellow 20awg to bezel PCB (lower right corner) are connected together with a wire nut.

- White from power cord connects to the lower right corner of the bezel PCB (w/ power cord black in the same connector.

- Black from power cord connects to the lower right corner of the bezel PCB (w/ power cord white in the same connector.

- The 22awg red and yellow wires connect the trigger valve to the top housing PCB.

- The upper right corner of the bezel PCB has four wires coming out:
  - The black wire (top) wire connects to the black vacuum motor wire (enters motor housing by the green w/ yellow striped wire).
  - The Red wire connects to the pump.
  - The Grey wire connects to the pump.
  - The white wire (bottom) should be connected to the remaining black vacuum motor wire with a wire nut.

- The upper left corner of the bezel PCB has two wires coming out:
  - The blue wire (top) connects to the brush motor.
  - The brown wire (bottom) connects to the brush motor.

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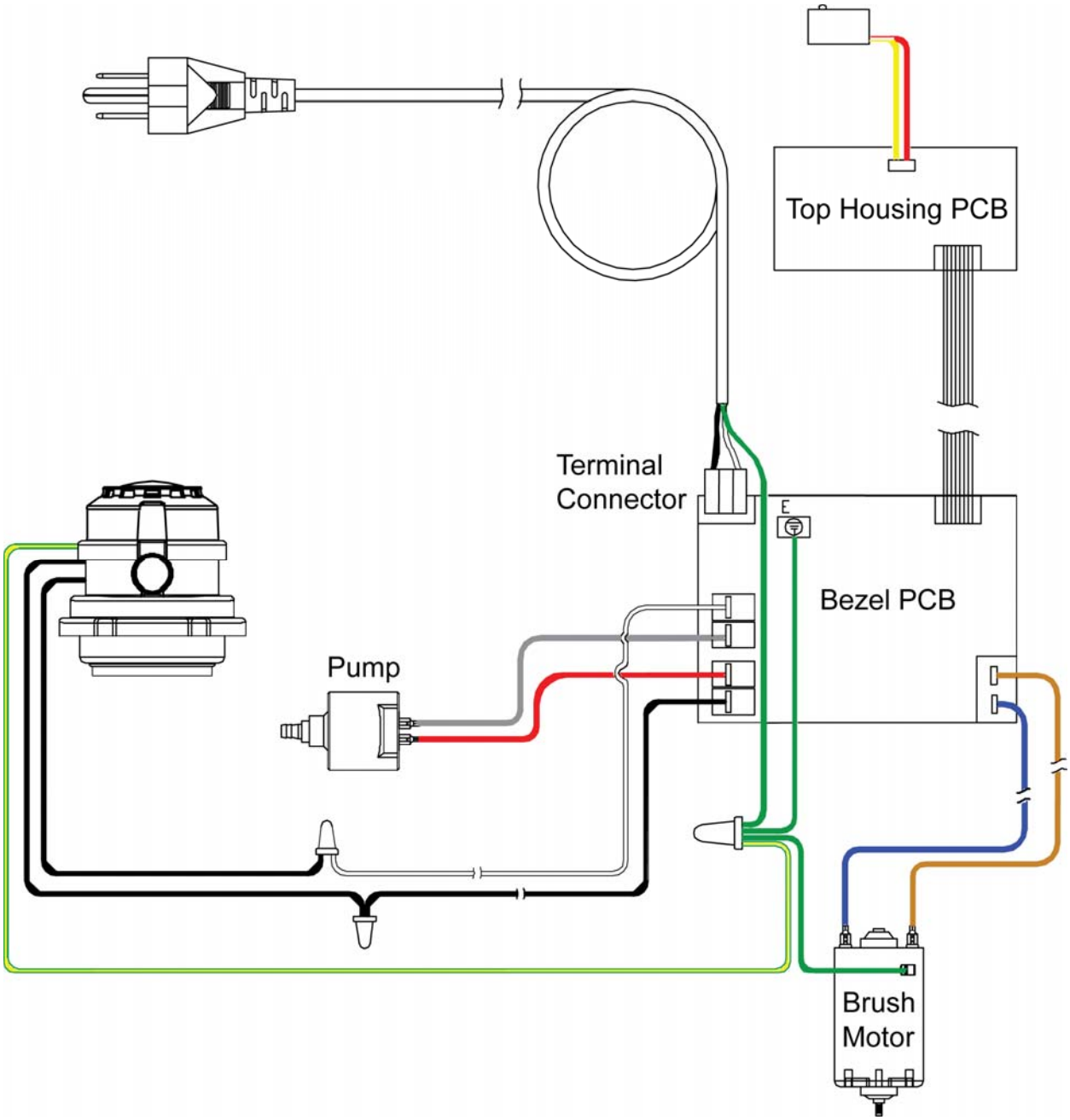
Wiring Diagram



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